

National Weather Service - San Diego

WEATHER FORECASTING

Winter Outlook Talk
October 26th 2004

Weak El Nino
Conditions



Change November 9

- LAXQPSSAN to LAXQPSSGX
- LAXQPSLAX to LAXQPSLOX



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News Items or review of past items or topics

- Ewarn - an alternate way for emergency managers and others to get weather warnings from the NWS via email.
- New NOAA Weather Radio transmitters are on line - A new marine radio on Mt Soledad in San Diego County - 162.425Mhz and Spanish Language radio in the Coachella Valley at 162.525Mhz.



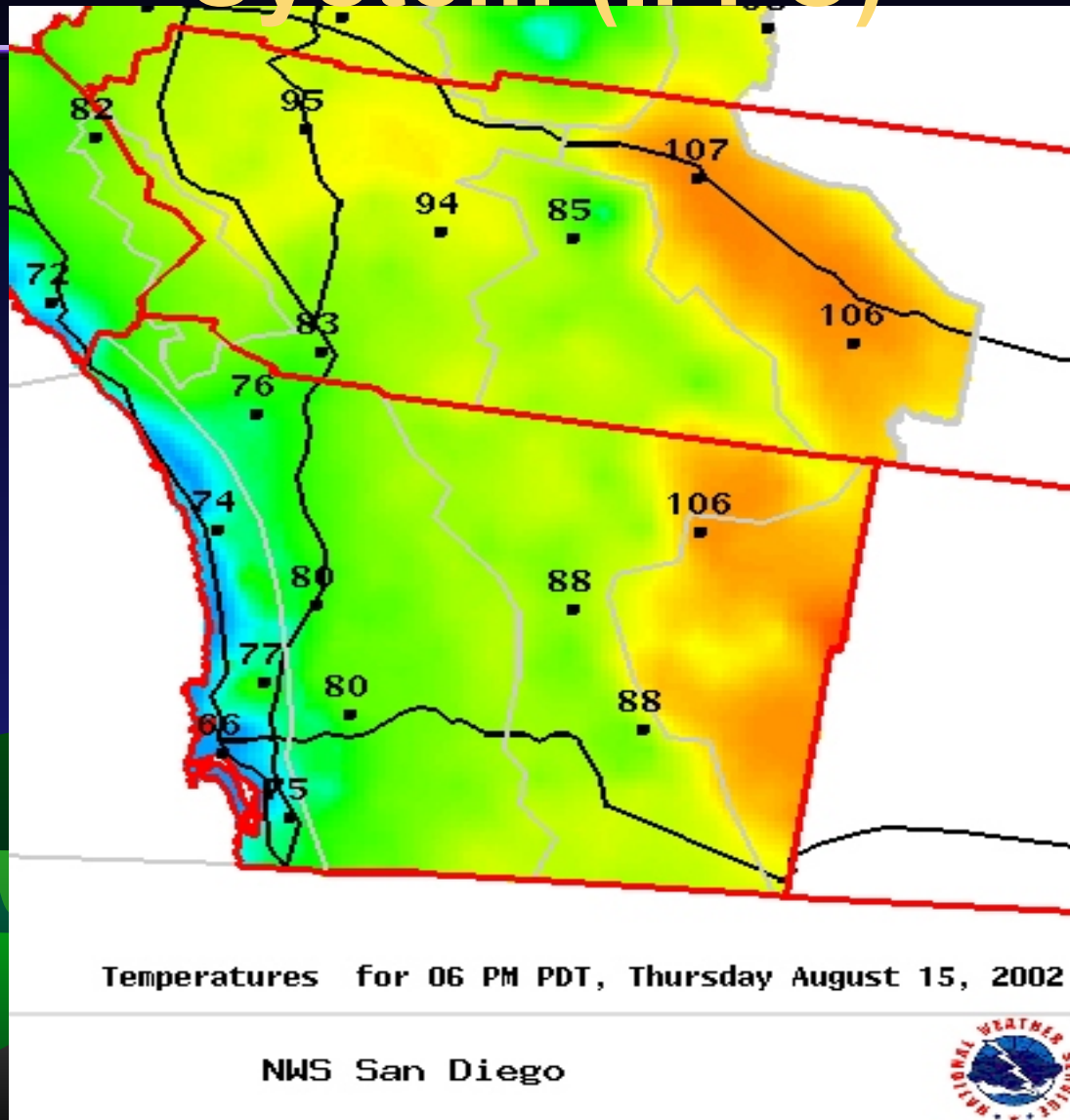
SAN DIEGO NATIONAL WEATHER SERVICE OFFICE COUNTY WARNING AND FORECAST AREA

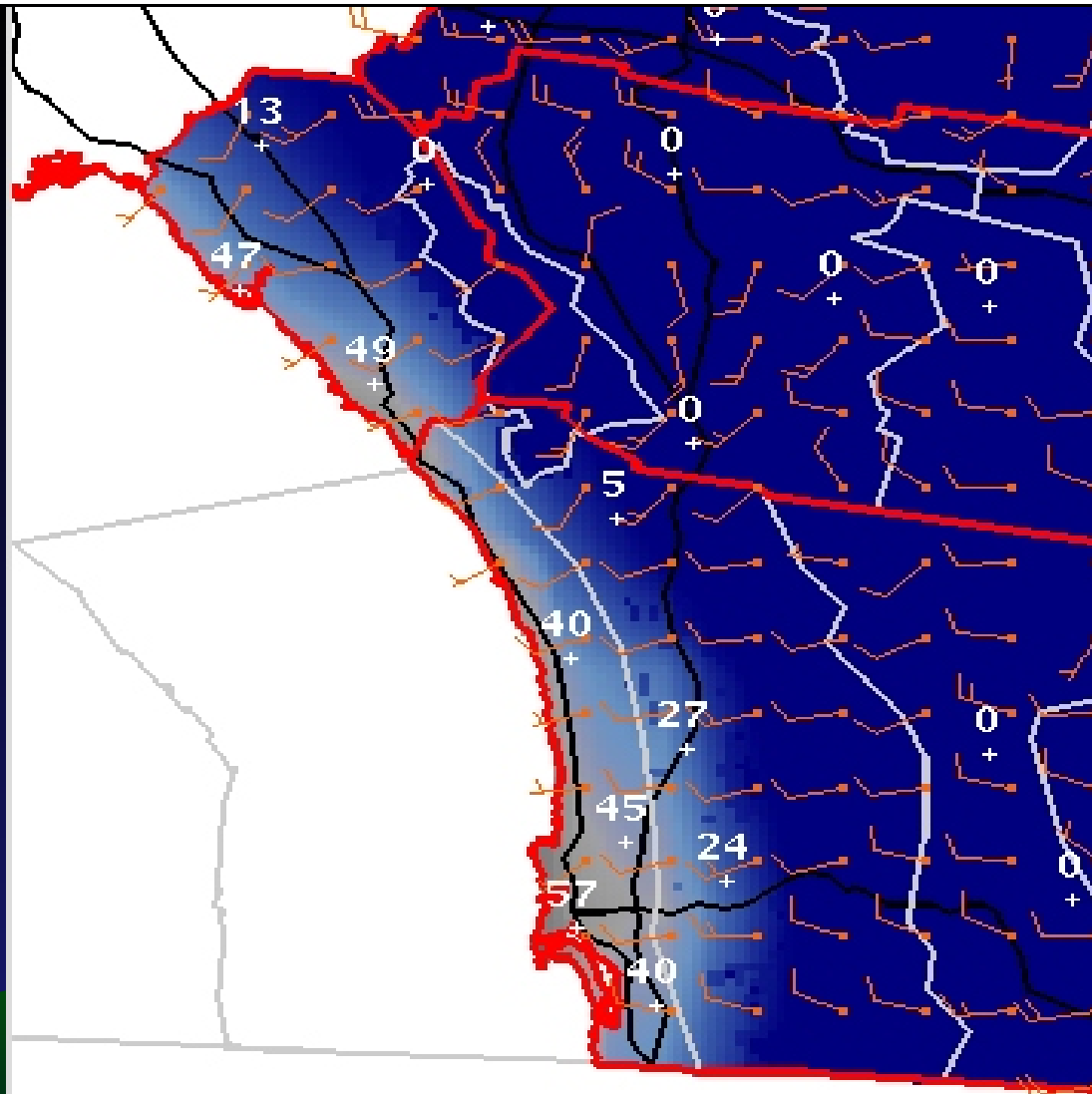
REPRESENT MILLIONS
OF PEOPLE IN THE
4 COUNTY AREA

1. San Diego
2. Orange
3. West Riverside
4. SW San Bernardino



Interactive Forecast Preparation System (IFPS)





Surface Wind (knots) for 06 PM PDT, Thu
Sky Cover (percent) for 06 PM PDT, Thu



NWS San Diego

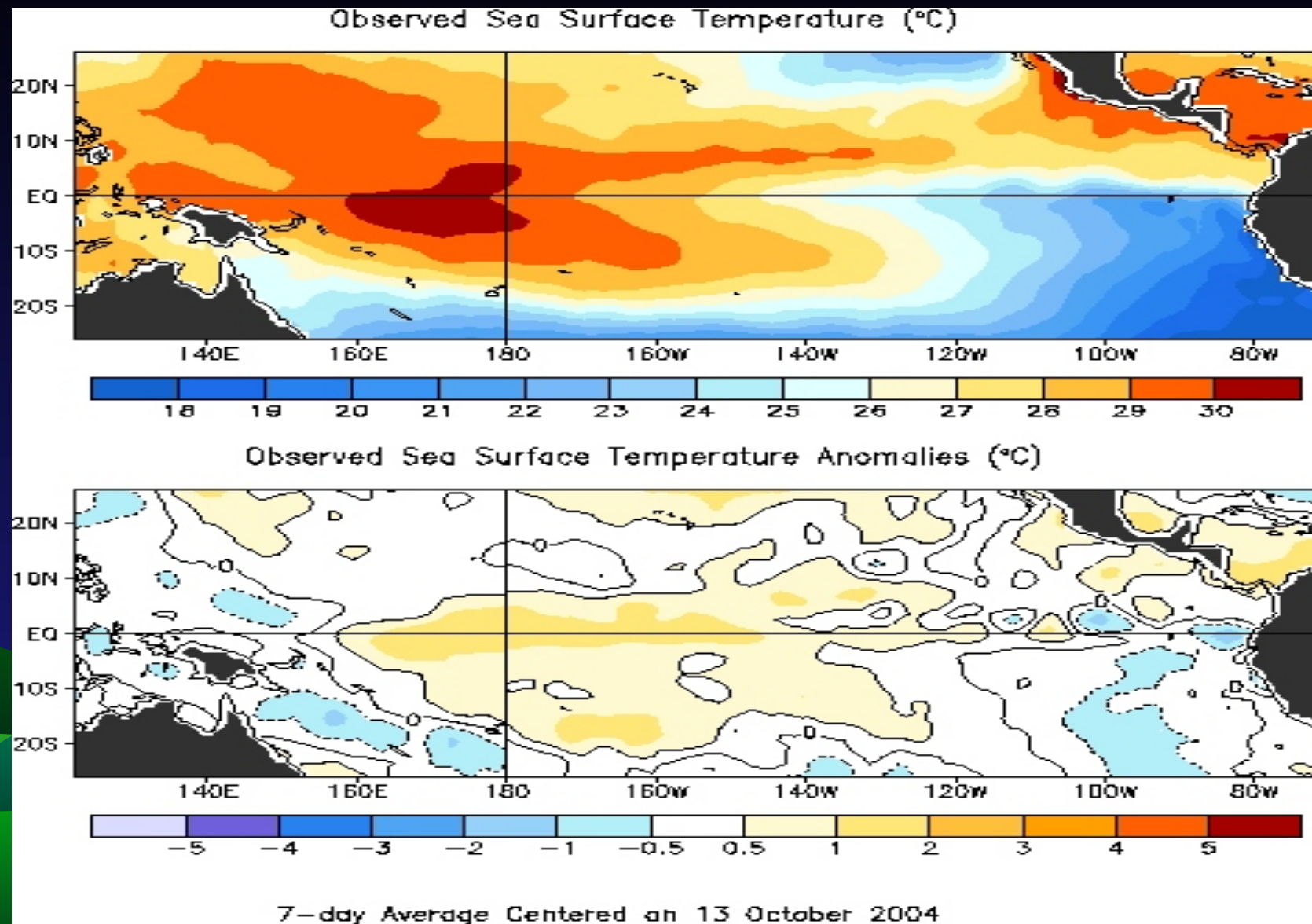
Weak El Nino

Definition

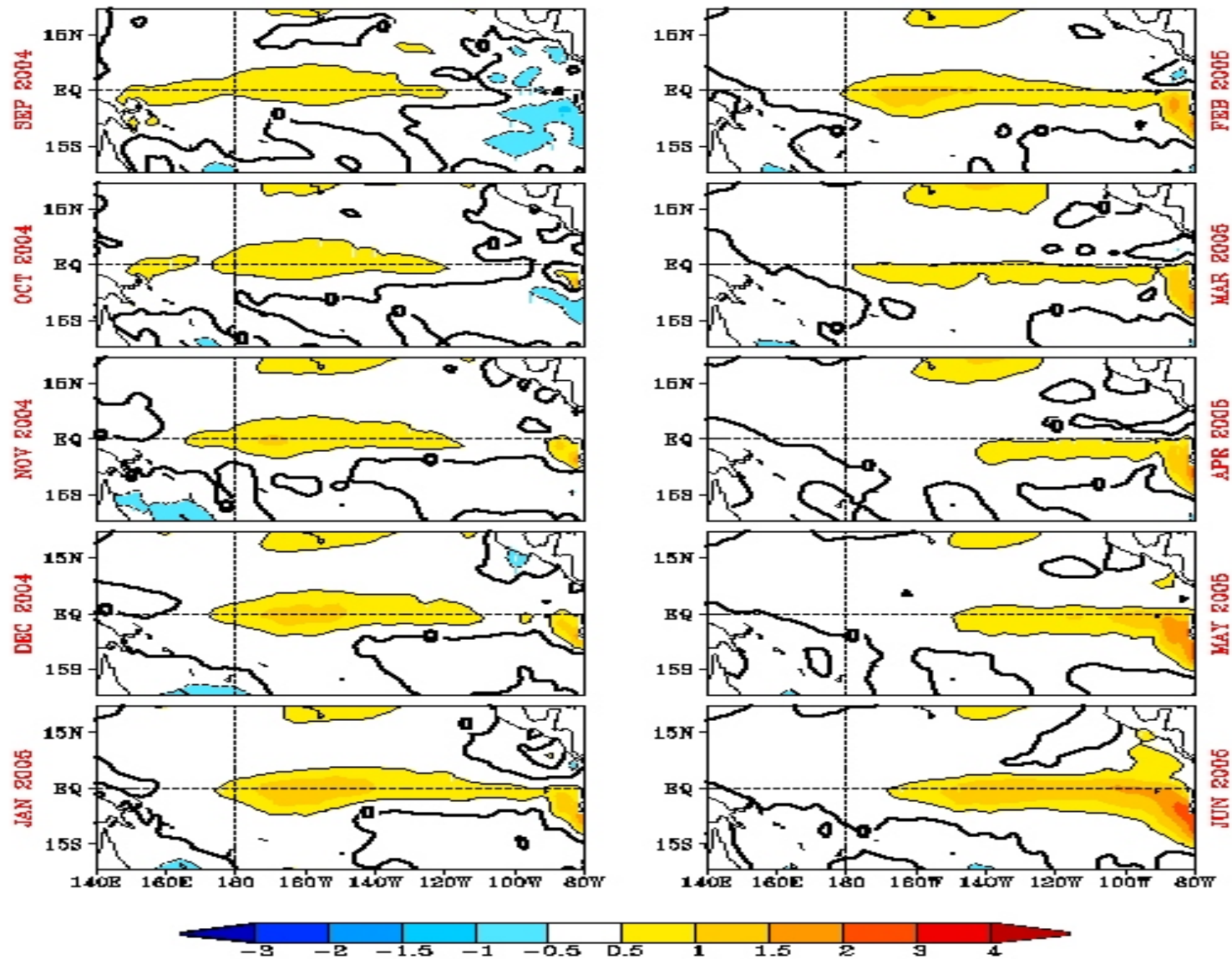
- ◆ **Water conditions in the tropical Pacific are considered a little above normal at this time with more warming expected.**



Tropical Water Temperature anomalies

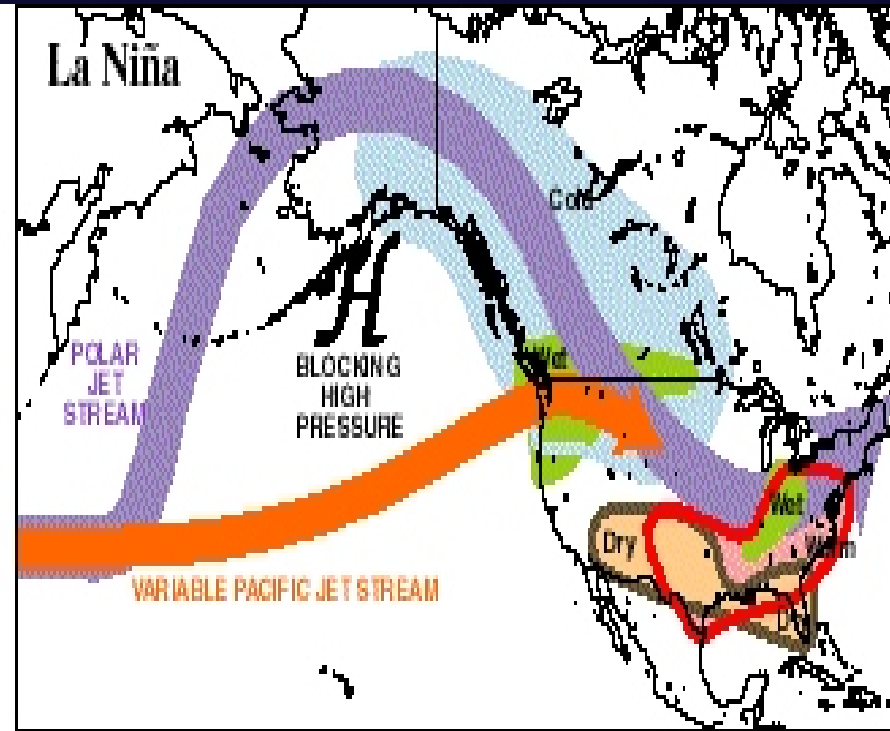
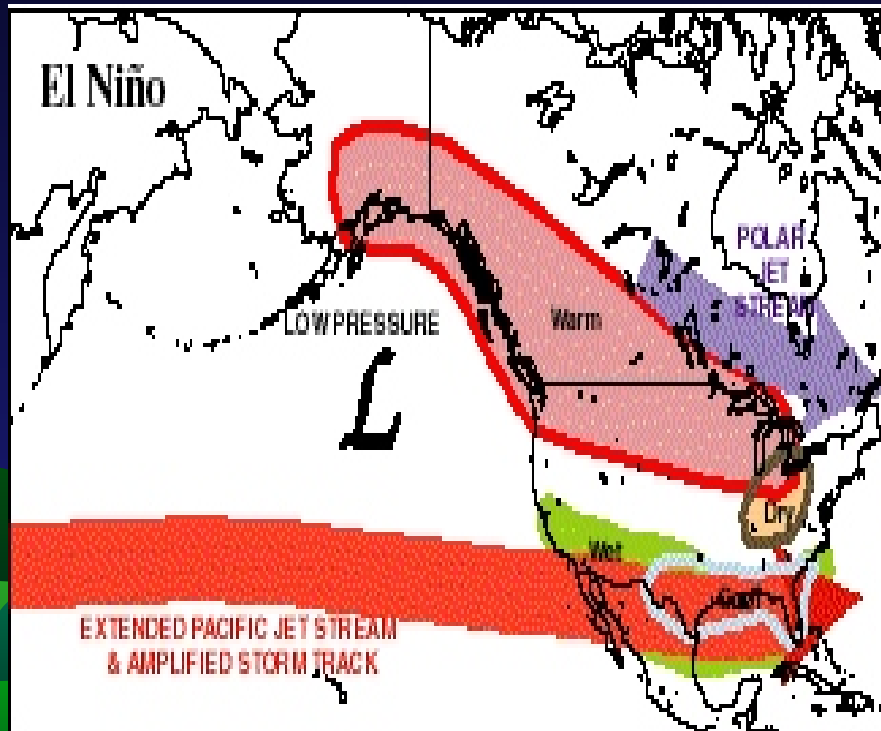


FORECAST SST ANOMALIES



Last Update: Tue Aug 31 2004

El Niño Vs. La Niña Patterns

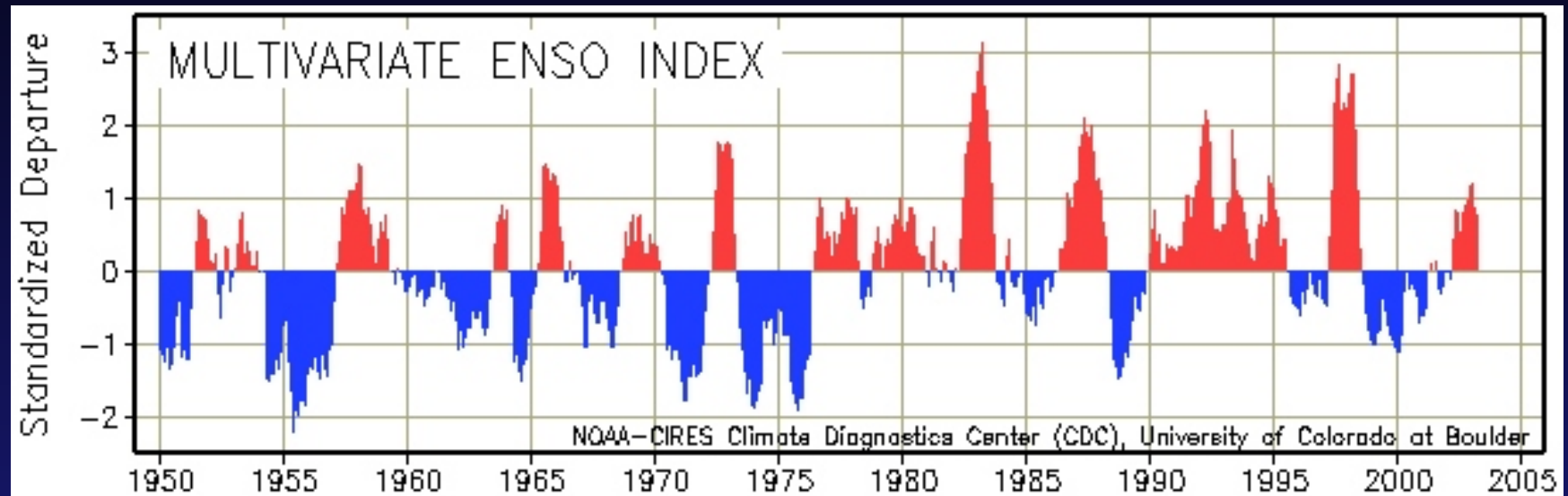


But...what else might affect the pattern?

- PDO - Pacific Decadal Oscillation
- Arctic Oscillation
- Madden-Julian Oscillation

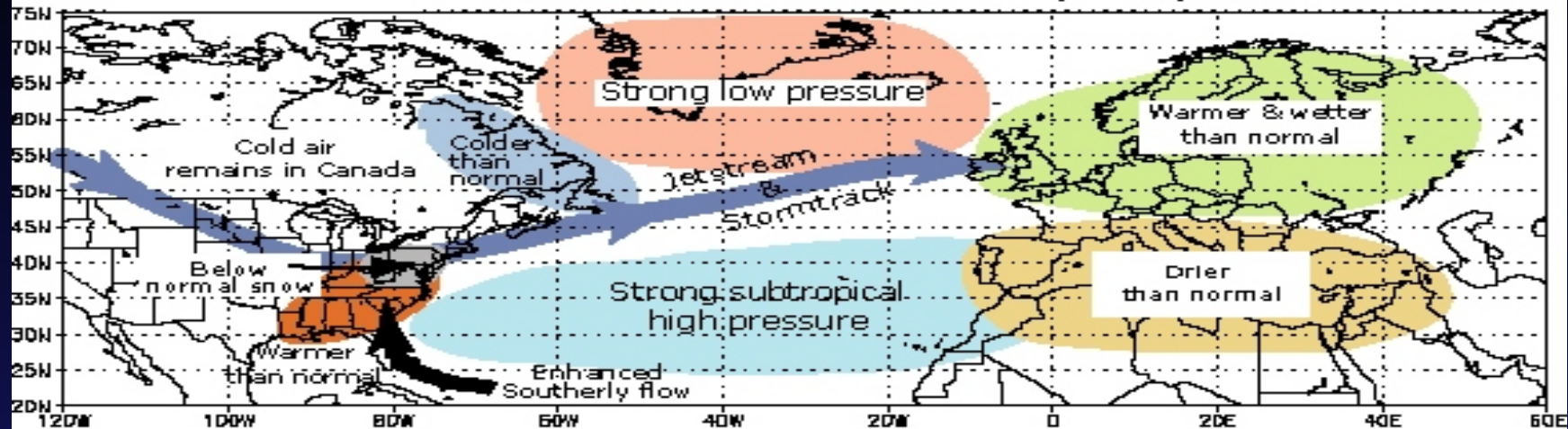


The PDO

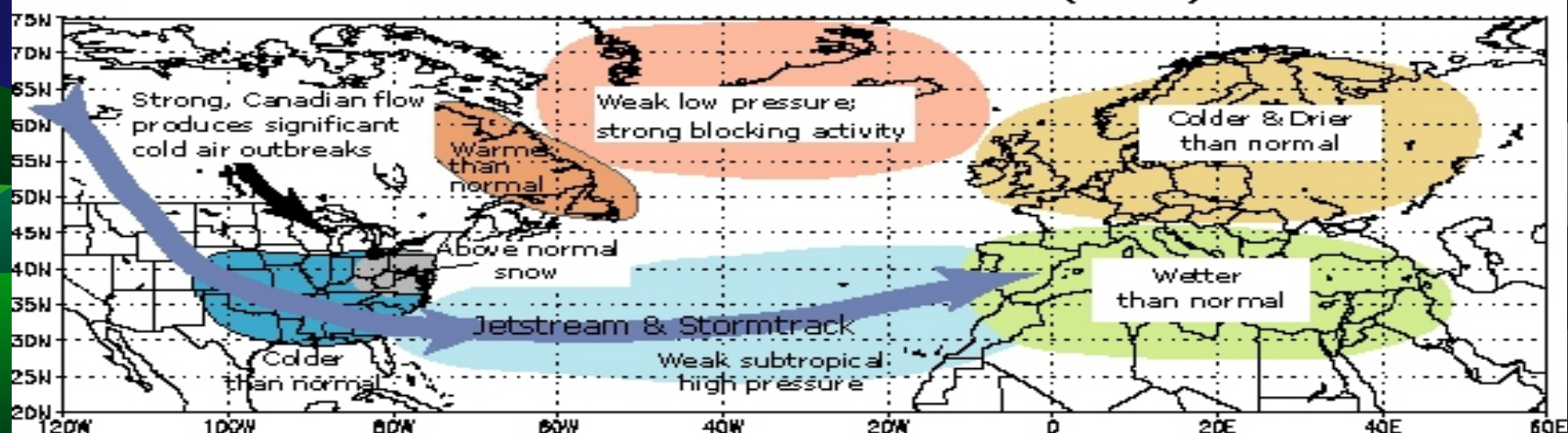


Arctic Oscillation

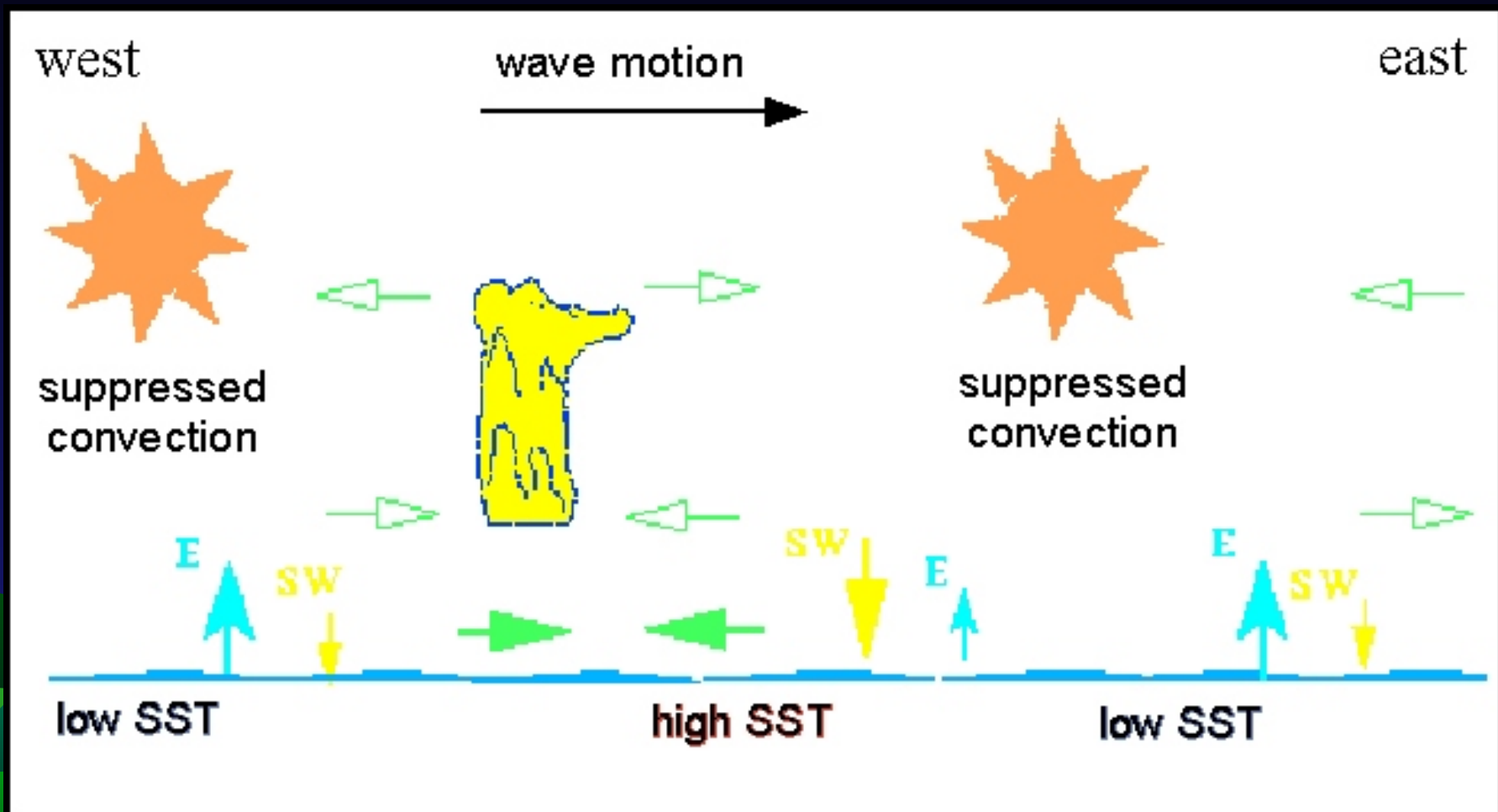
Positive Phase of the Wintertime North Atlantic Oscillation (NAO)



Negative Phase of the Wintertime North Atlantic Oscillation (NAO)

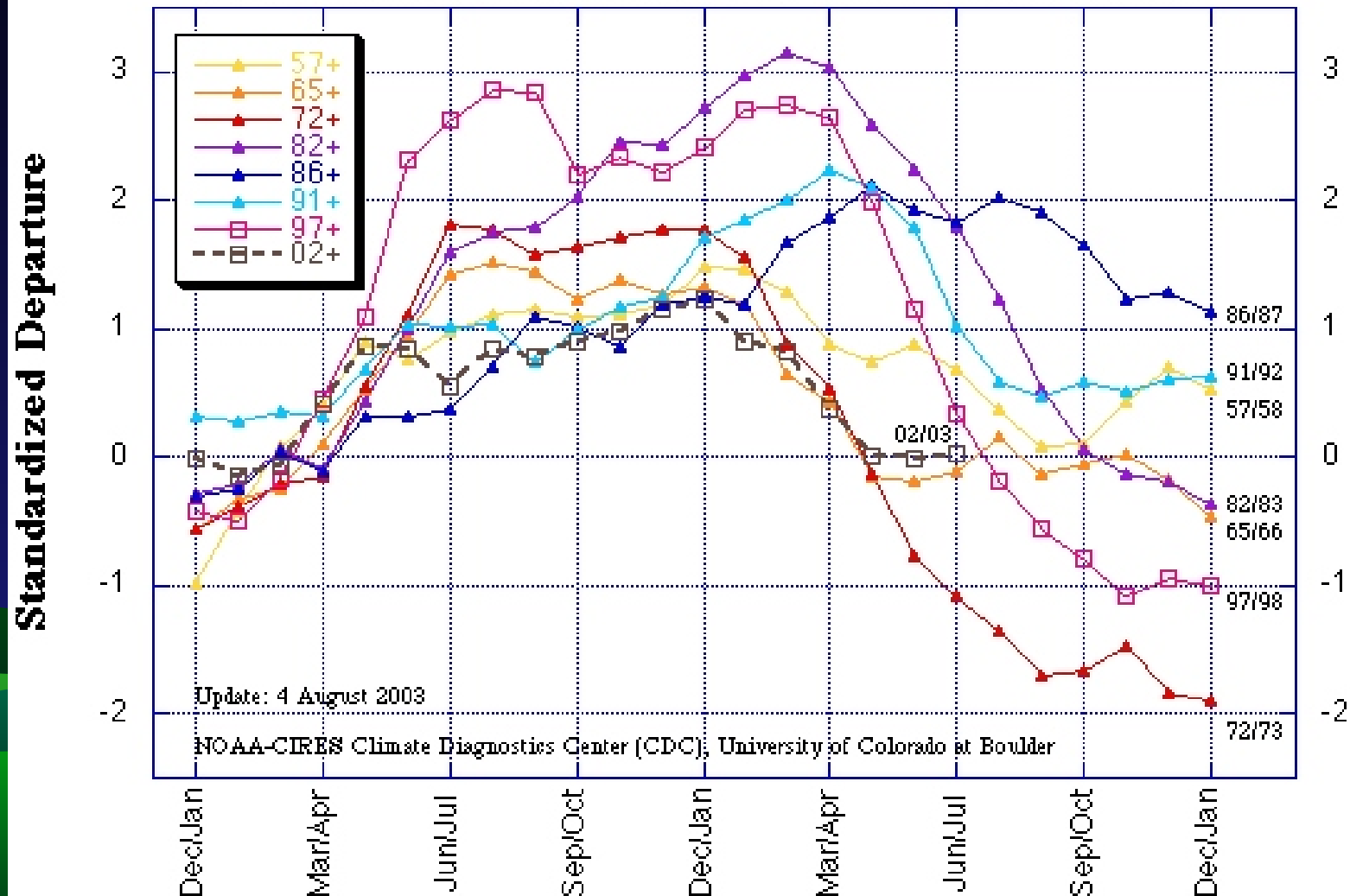


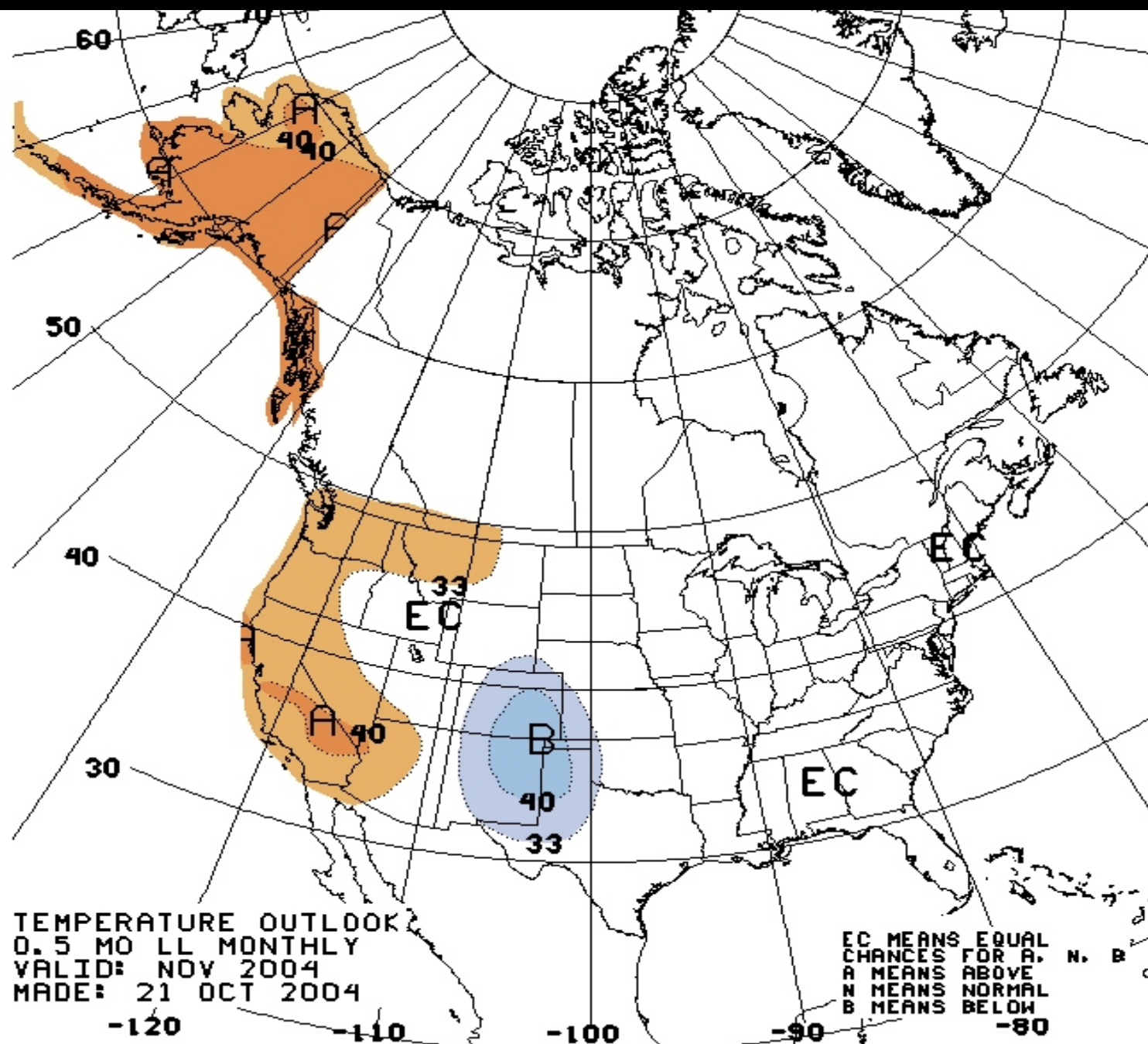
Madden-Julian Oscillation

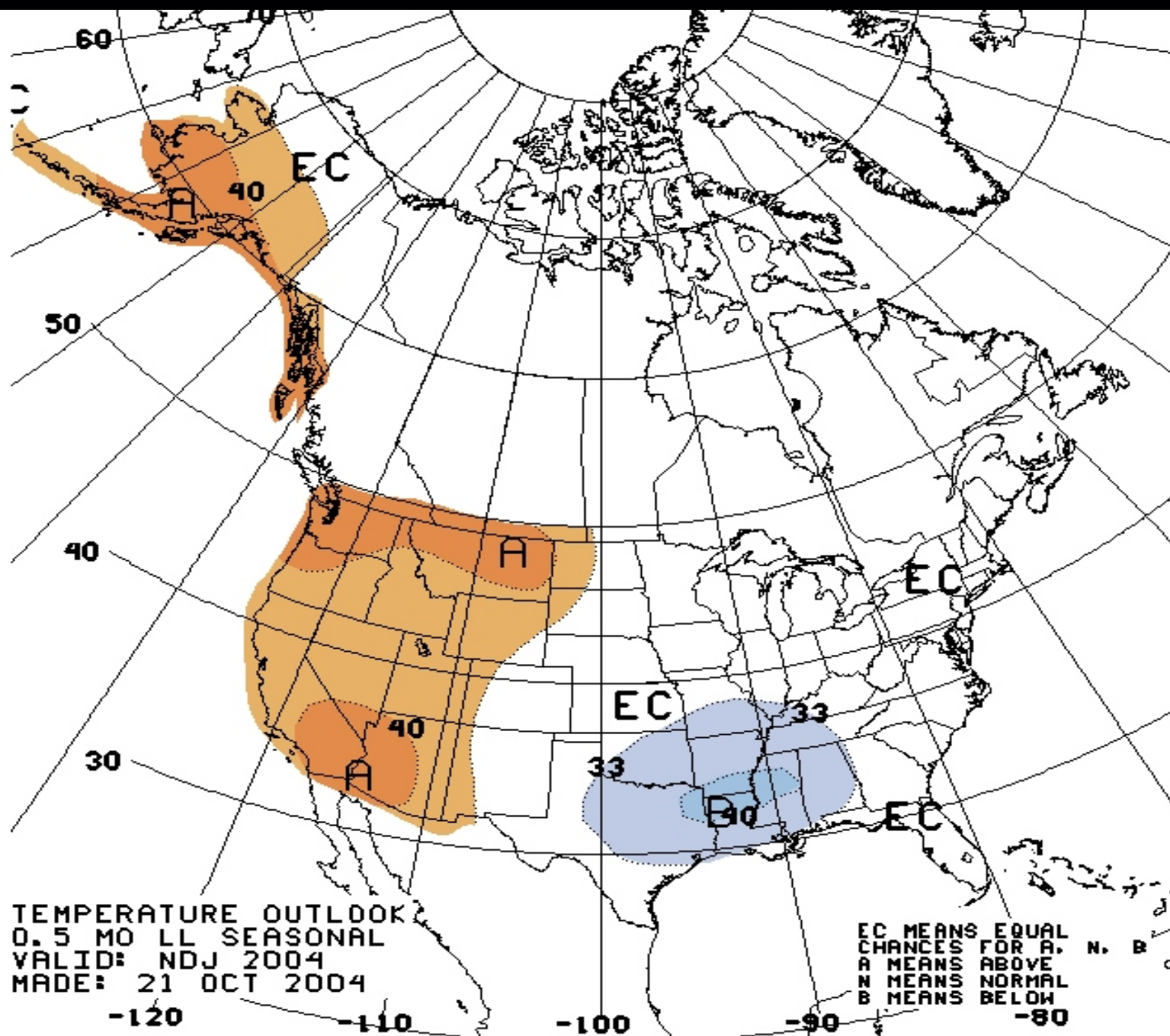


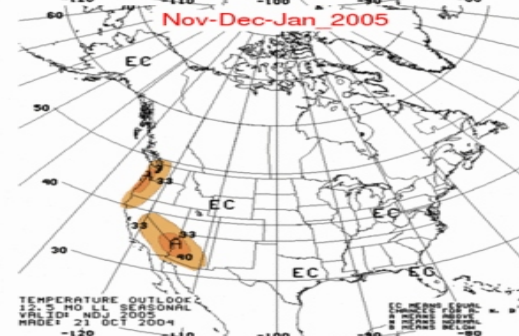
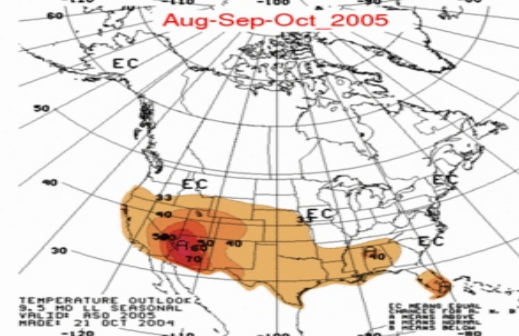
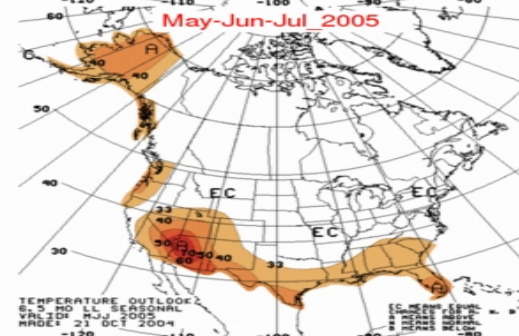
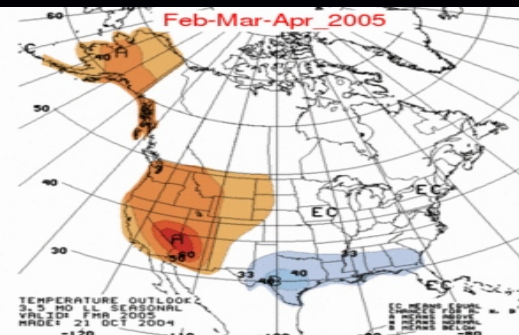
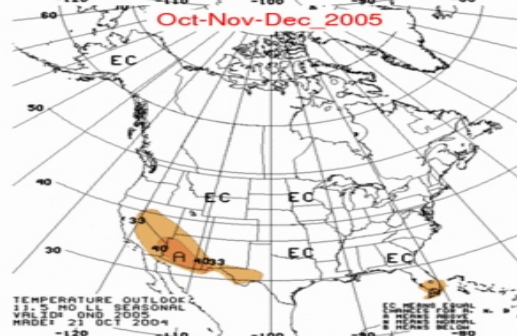
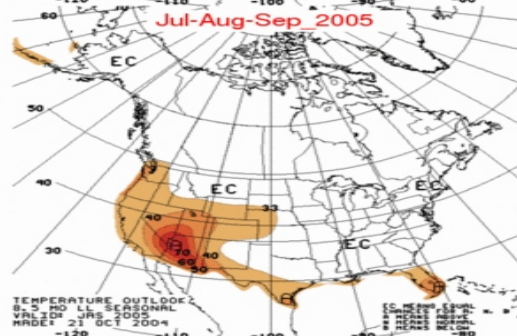
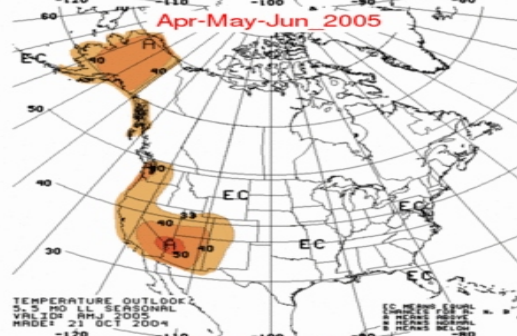
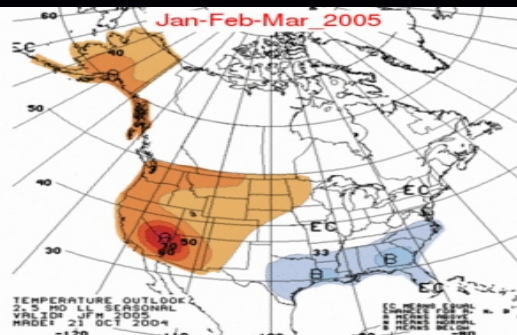
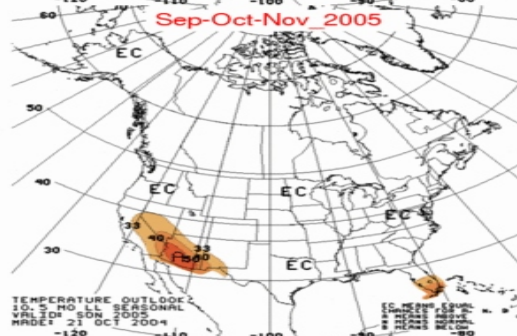
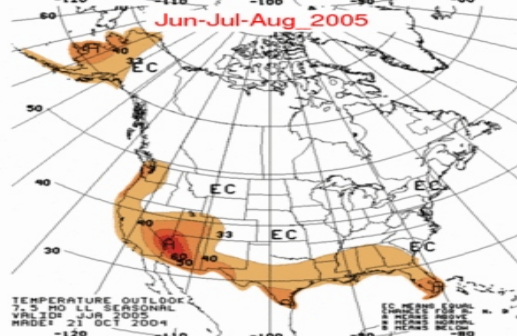
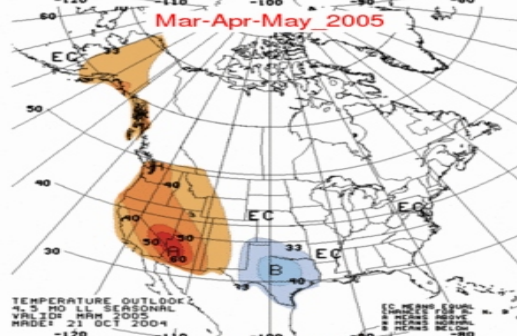
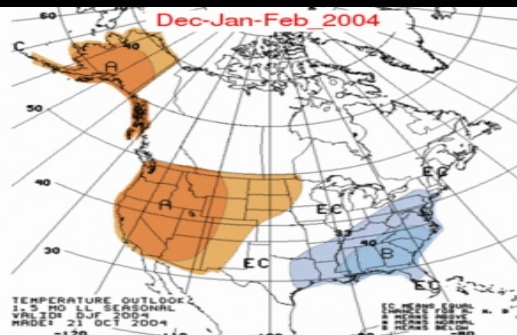
Past El Ninos

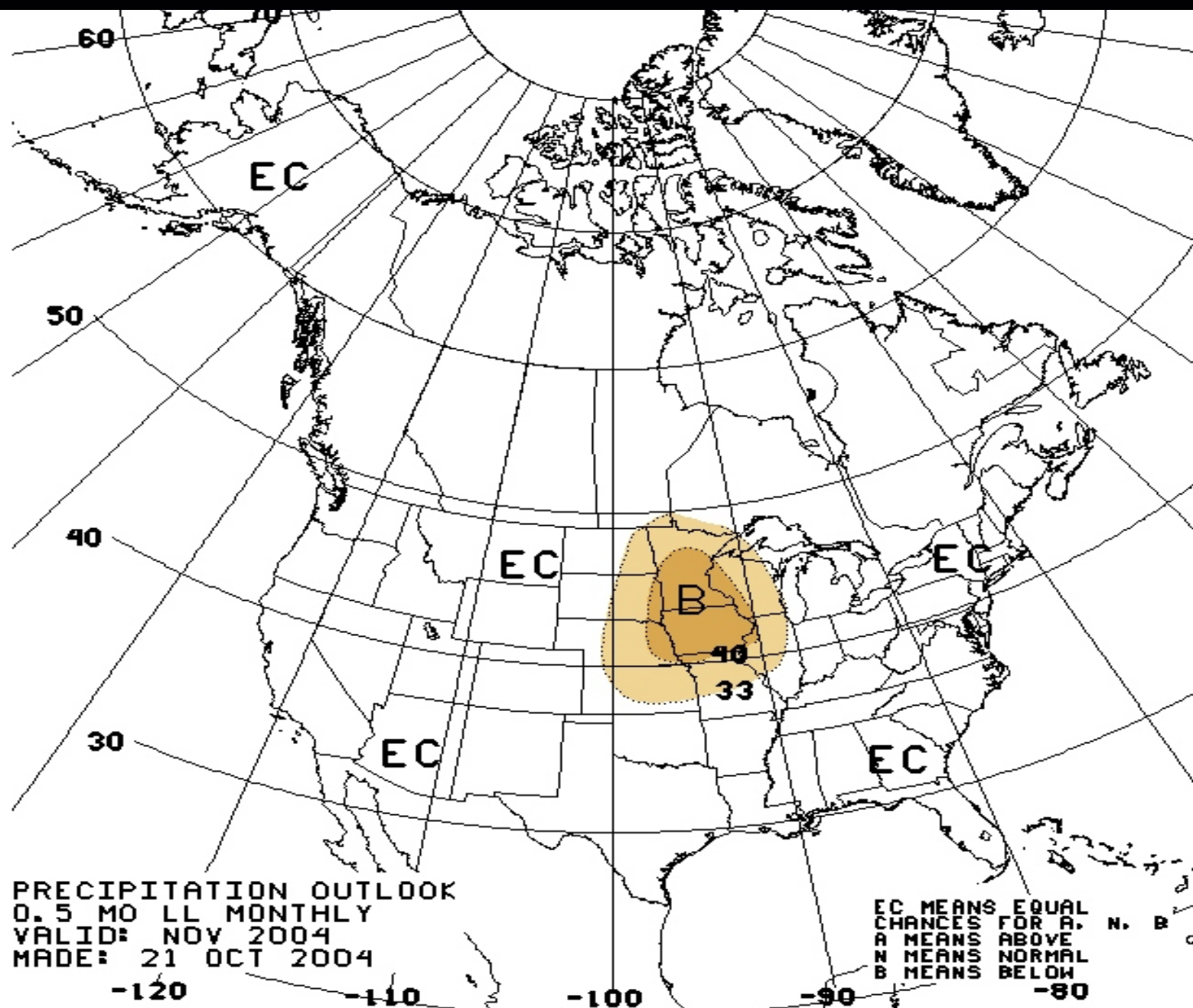
Multivariate ENSO Index for the strongest
El Niño events since 1950 vs. current conditions

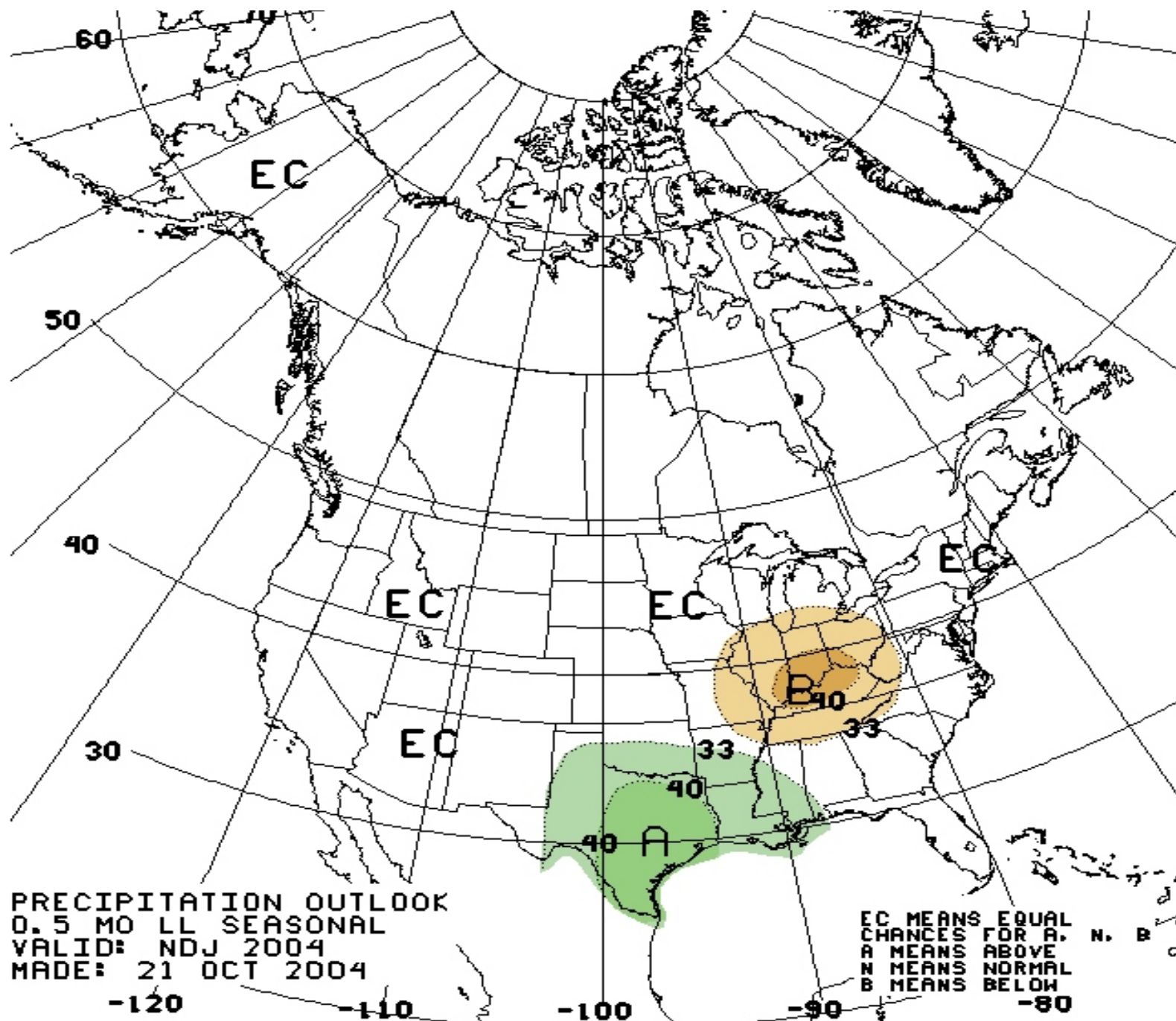


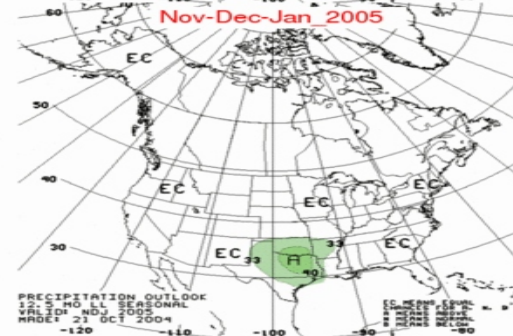
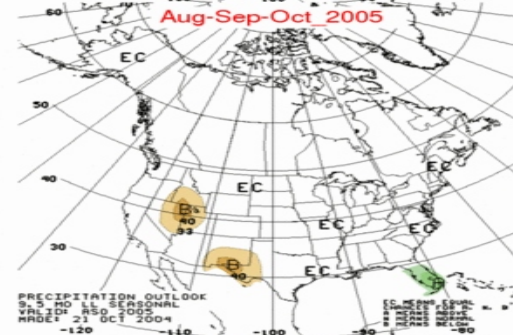
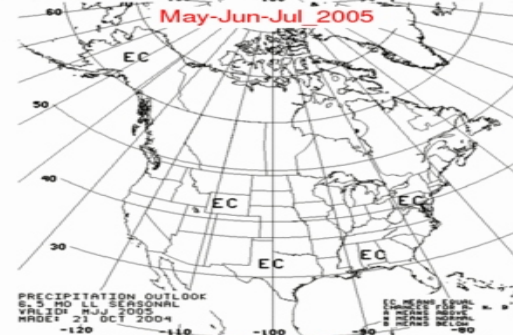
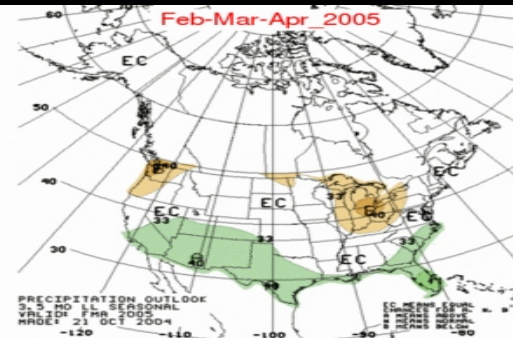
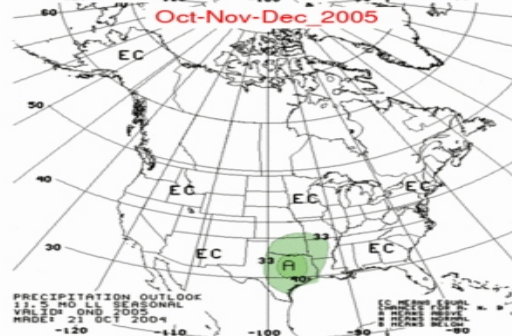
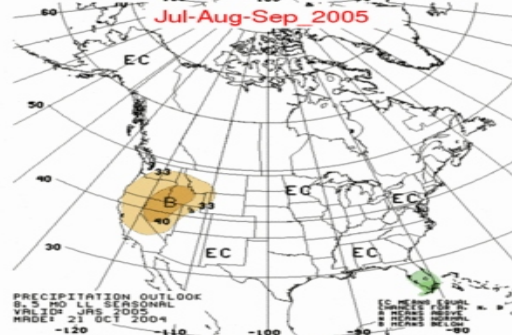
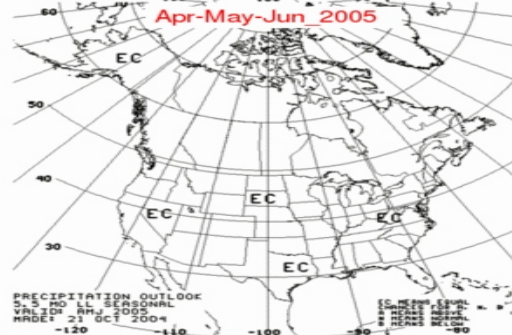
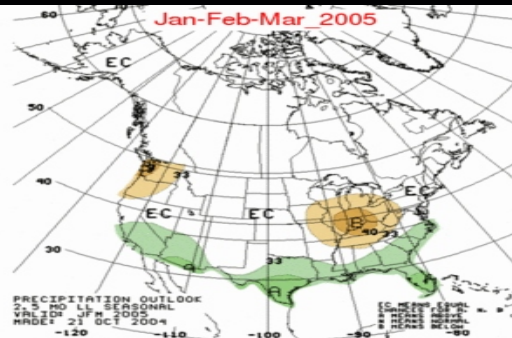
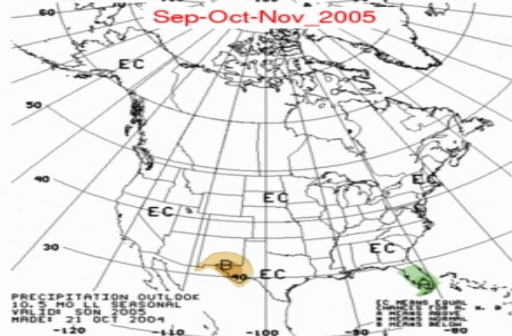
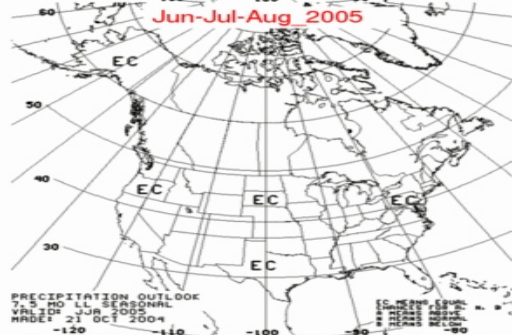
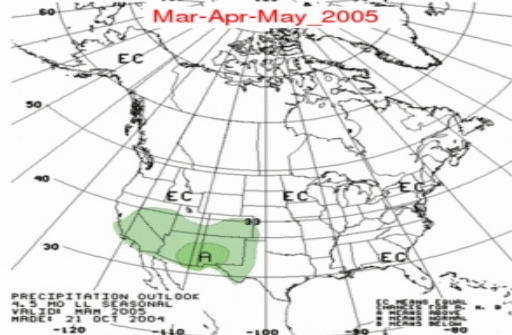
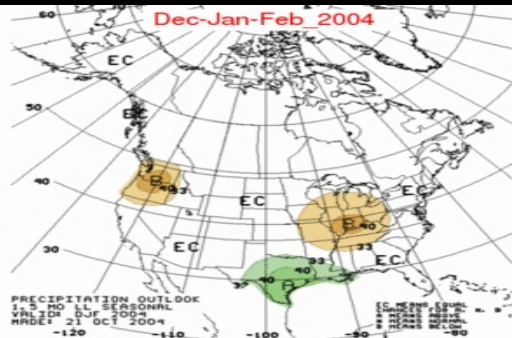


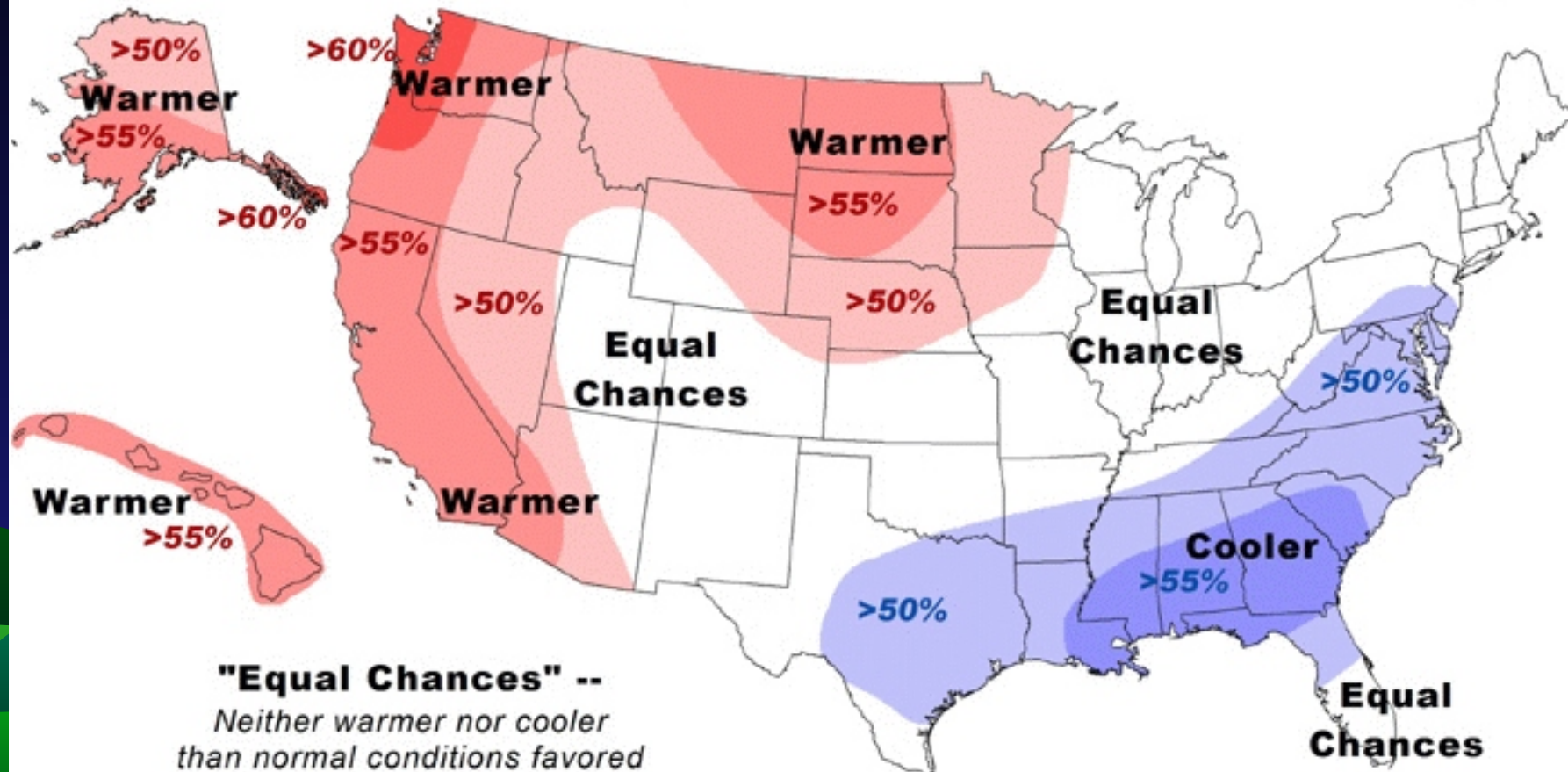
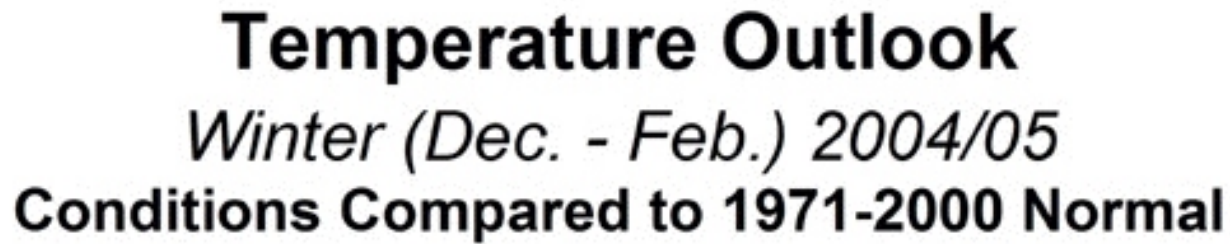










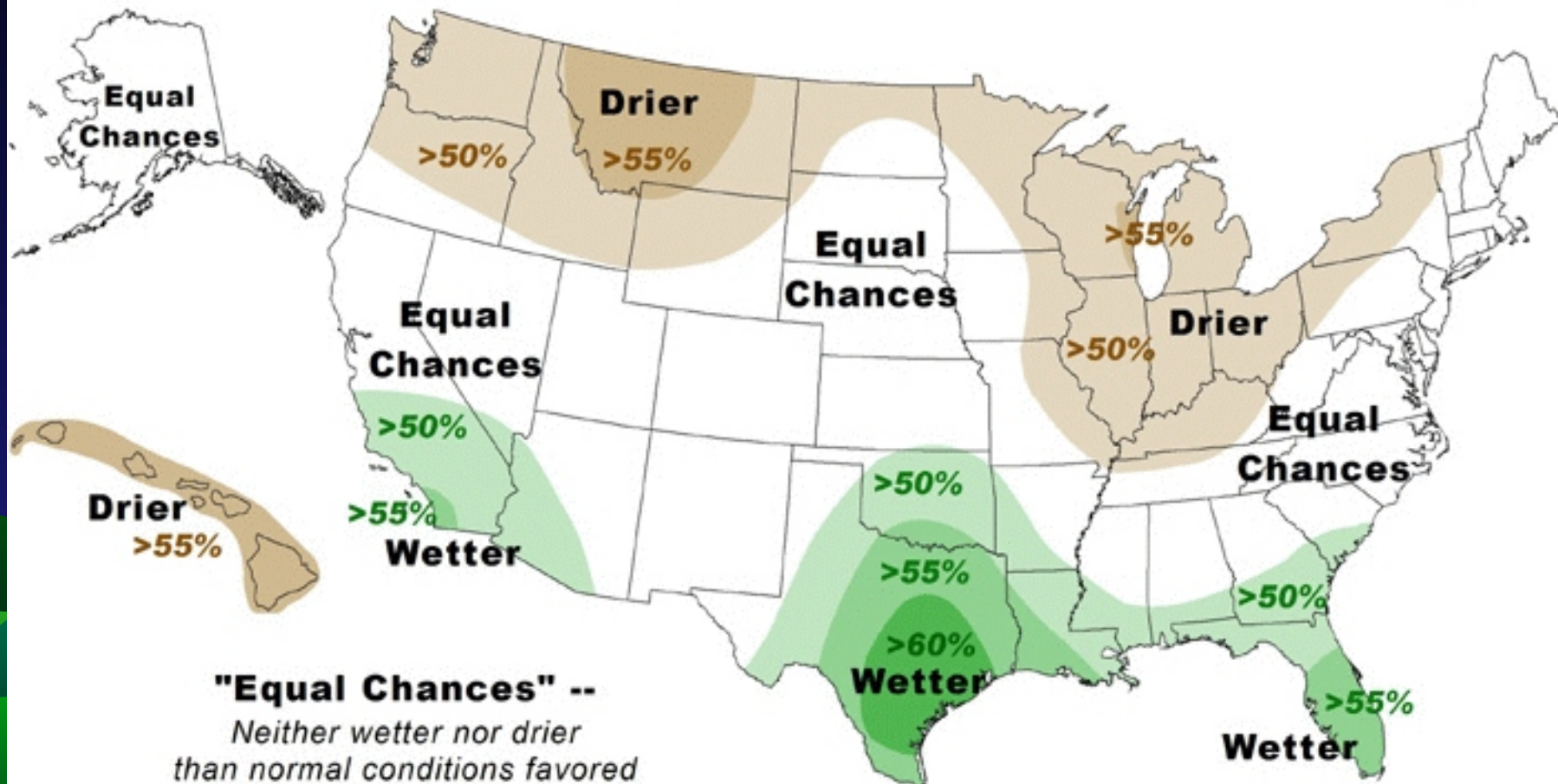




Precipitation Outlook

Winter (Dec. - Feb.) 2004/05

Conditions Compared to 1971-2000 Normal



Sea Surface Temperature Anomalies -Its Importance to us

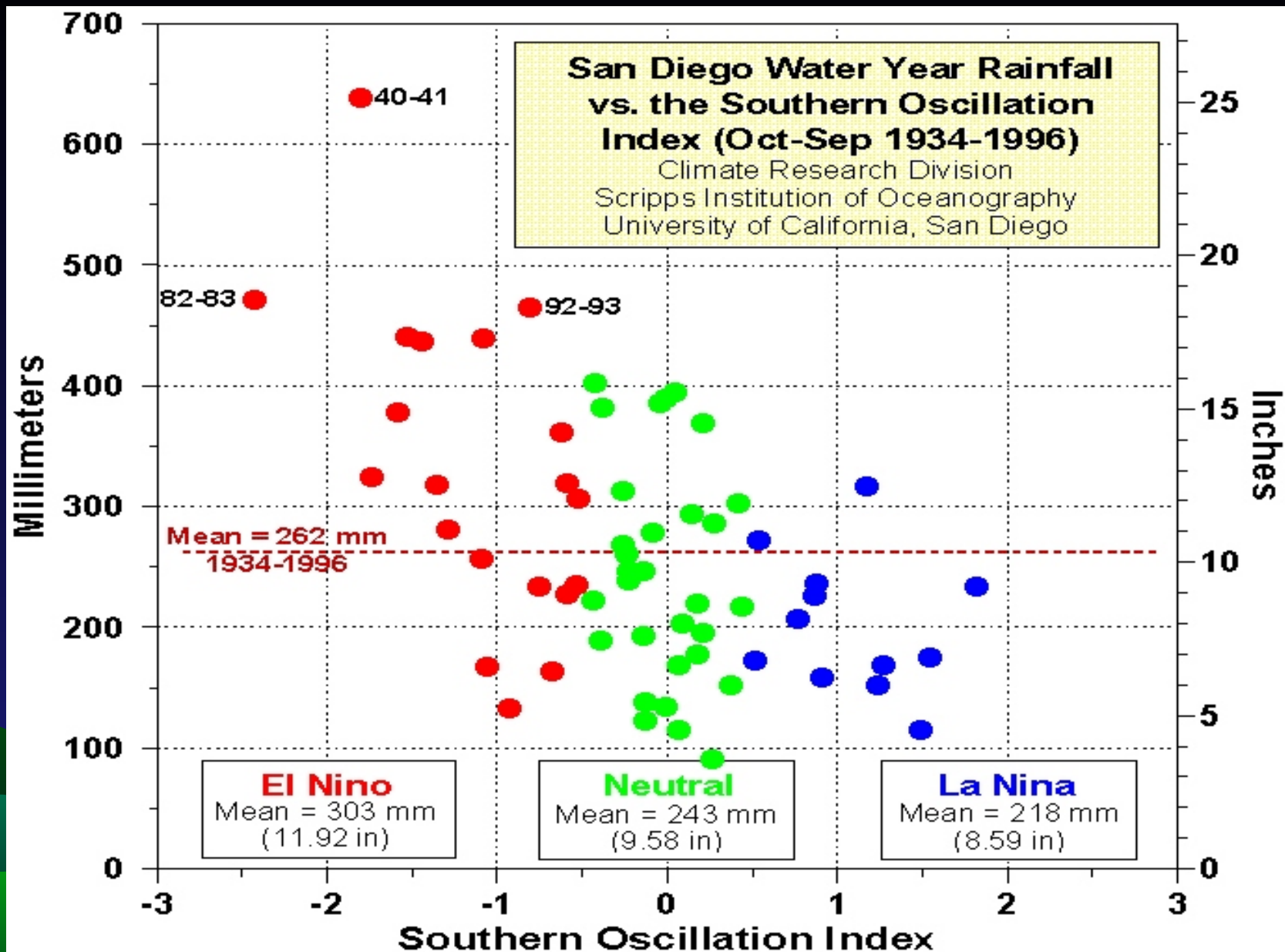
- Temperature changes affect storm tracks.
- Rainfall highly dependent on size of Sea Surface Temperature changes
Negative or positive



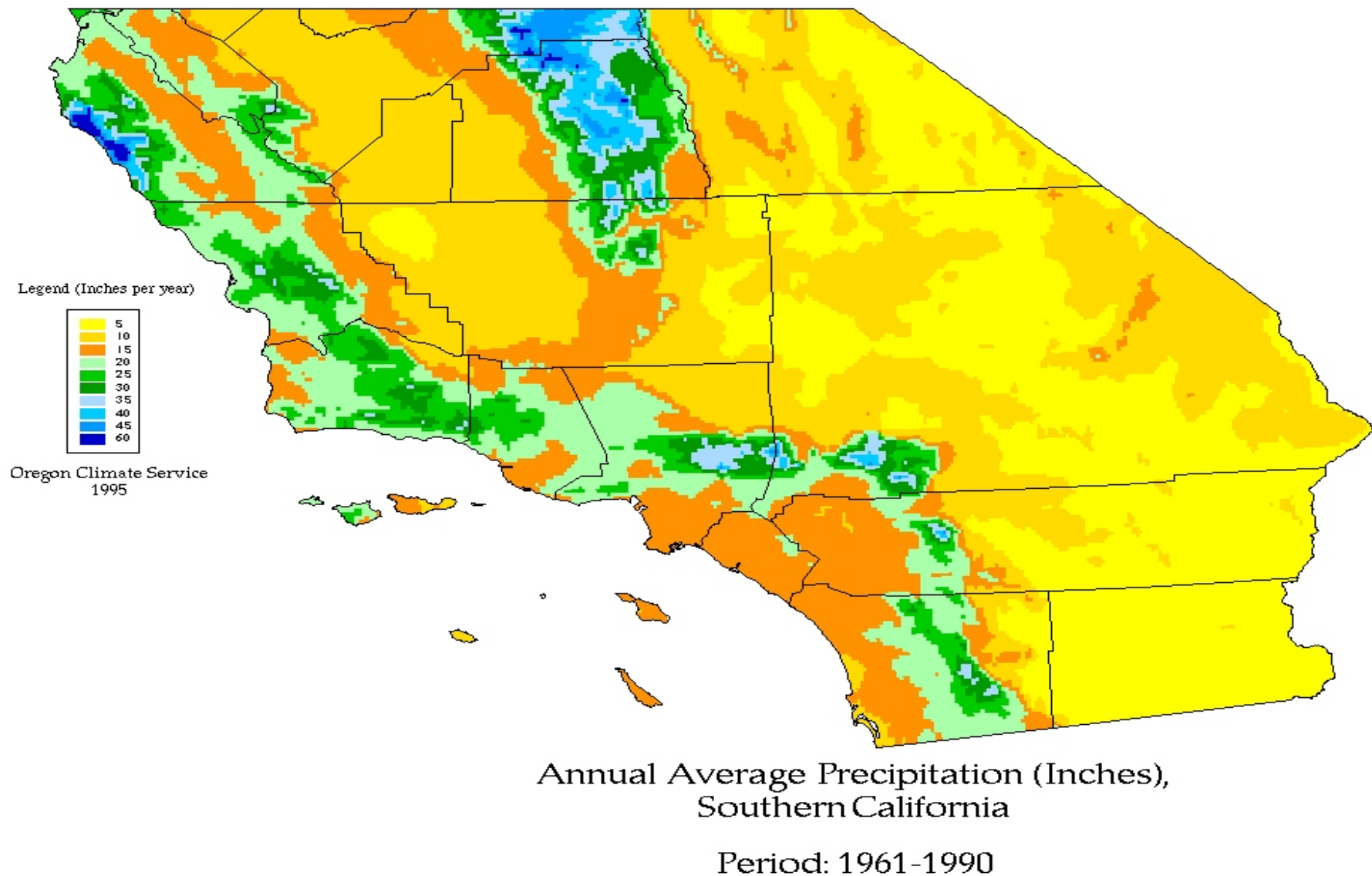
Weak El Nino Conditions -

- ◆ Weak driving force in the atmosphere, thus confidence lower.
- ◆ Thinking right now is that we will end up somewhere around 80 to near 100% of normal for rainfall season. Flooding is still possible, of course.
- ◆ Near normal temperatures.





Average Annual Precipitation (inches)



Orange County 2004-05 Winter Season Rainfall Outlook

Normal

Outlook

Coastal Sections

11.00 - 14.00

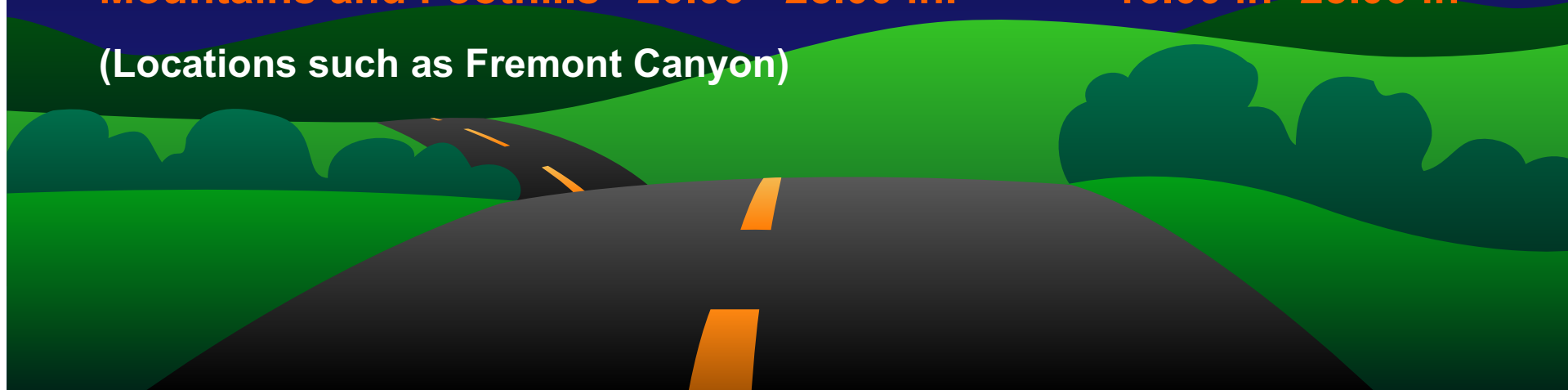
8.80 - 14.00 in.

(Seal Beach, Newport Beach, Santa Ana, Anaheim, etc.)

Mountains and Foothills 20.00 - 25.00 in.

16.00 in -25.00 in

(Locations such as Fremont Canyon)



2004-05 Winter Season Rainfall Outlook

October 2004 - March 2005 Rainfall Outlook For San Bernardino County

Normal

Outlook

Valleys - Inland Empire 13.00 - 16.50 in. 10.50 - 16.50 in.

(Ontario, San Bernardino, Redlands)

Mountains 22.00 - 44.00 in. 17.50 - 44.00 in.

(Wrightwood, Lake Arrowhead, Big Bear Lake, etc.)

Apple and Yucca Valley 5.50 - 7.00 in. 4.50 - 7.00 in.

(Victorville, Apple Valley, Lucerne Valley, Yucca Valley, etc.)



2004-2005 Winter Season Rainfall Outlook

October 2004 - March 2005 Rainfall Outlook For San Diego County

Normal

Outlook

Coastal Sections

8.50 in. - 11.00 in.

6.50 in. -11.00 in.

(Zone from the beach to several miles inland)

Inland Valleys

12.00 in. - 16.50 in.

9.50 in. -16.50 in.

(Poway, Santee, La Mesa, Lemon Grove, El Cajon, Bonita, Fallbrook, Vista, Escondido, Rancho Bernardo, etc.)

Mountains

26.00 in. - 40.00 in.

20.50 in. -40.00 in.

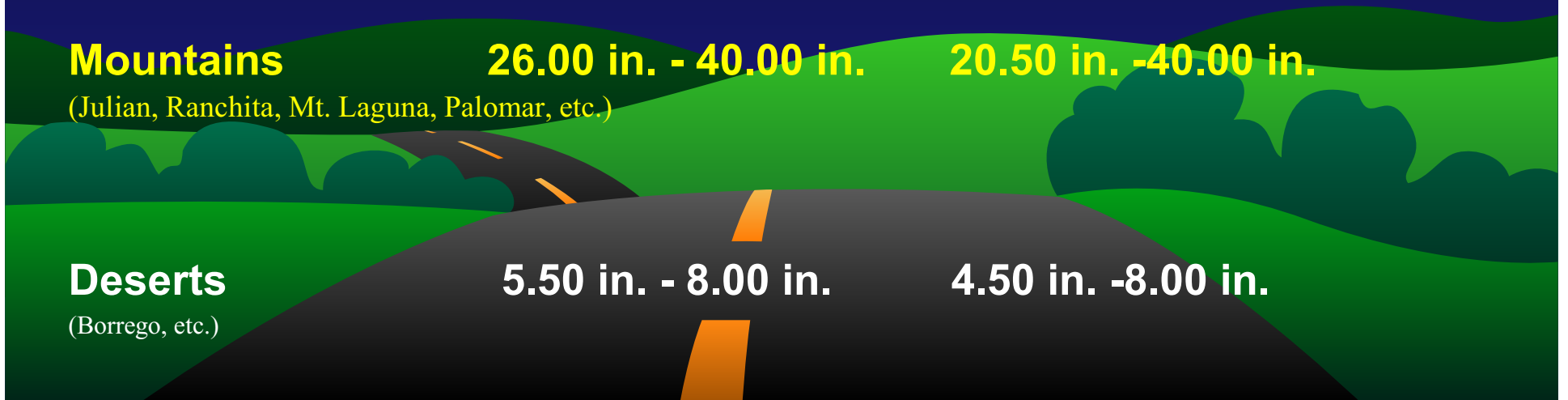
(Julian, Ranchita, Mt. Laguna, Palomar, etc.)

Deserts

5.50 in. - 8.00 in.

4.50 in. -8.00 in.

(Borrego, etc.)



2004-05 Winter Season Rainfall Outlook

October 2004 - March 2005 Rainfall Outlook For Riverside County

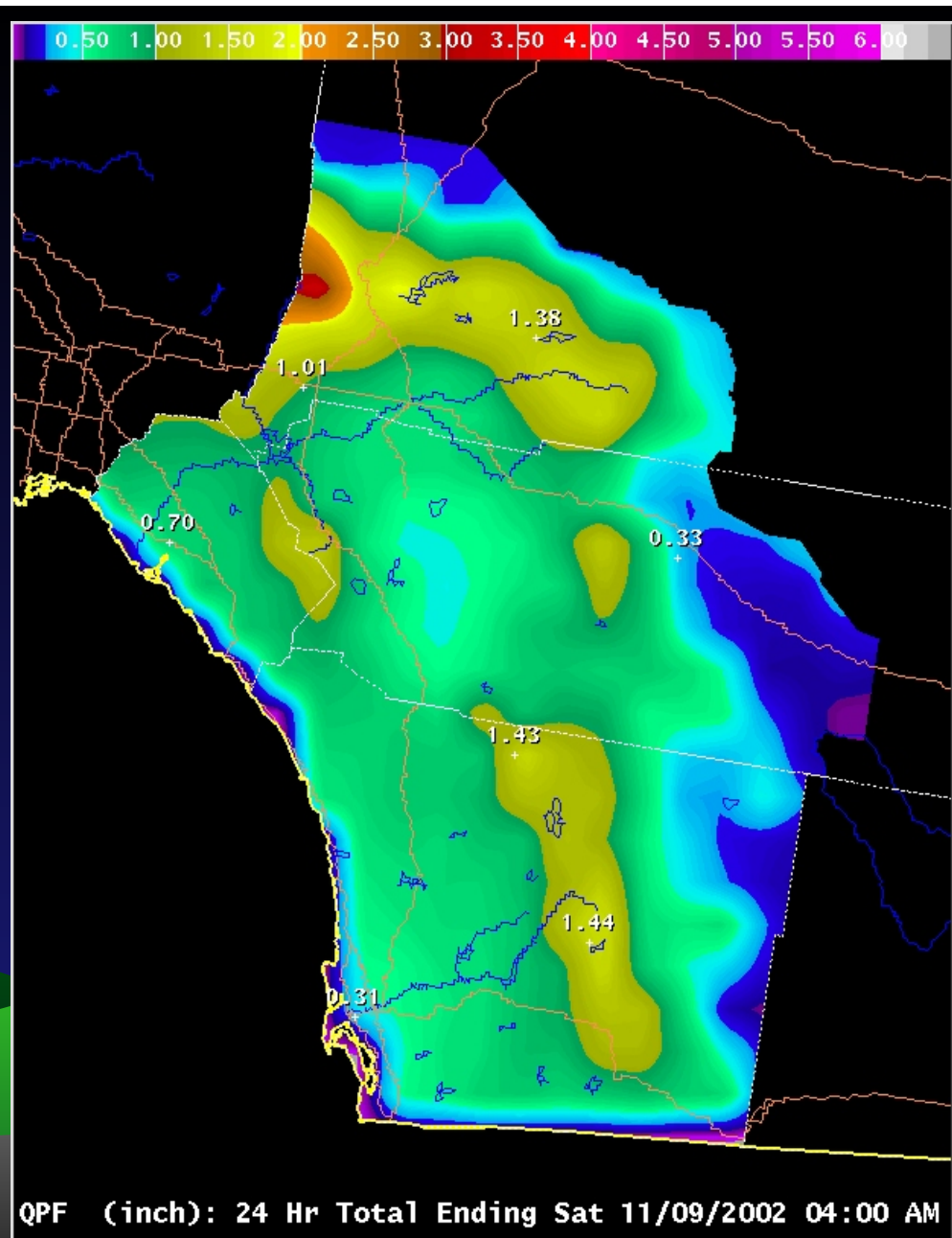
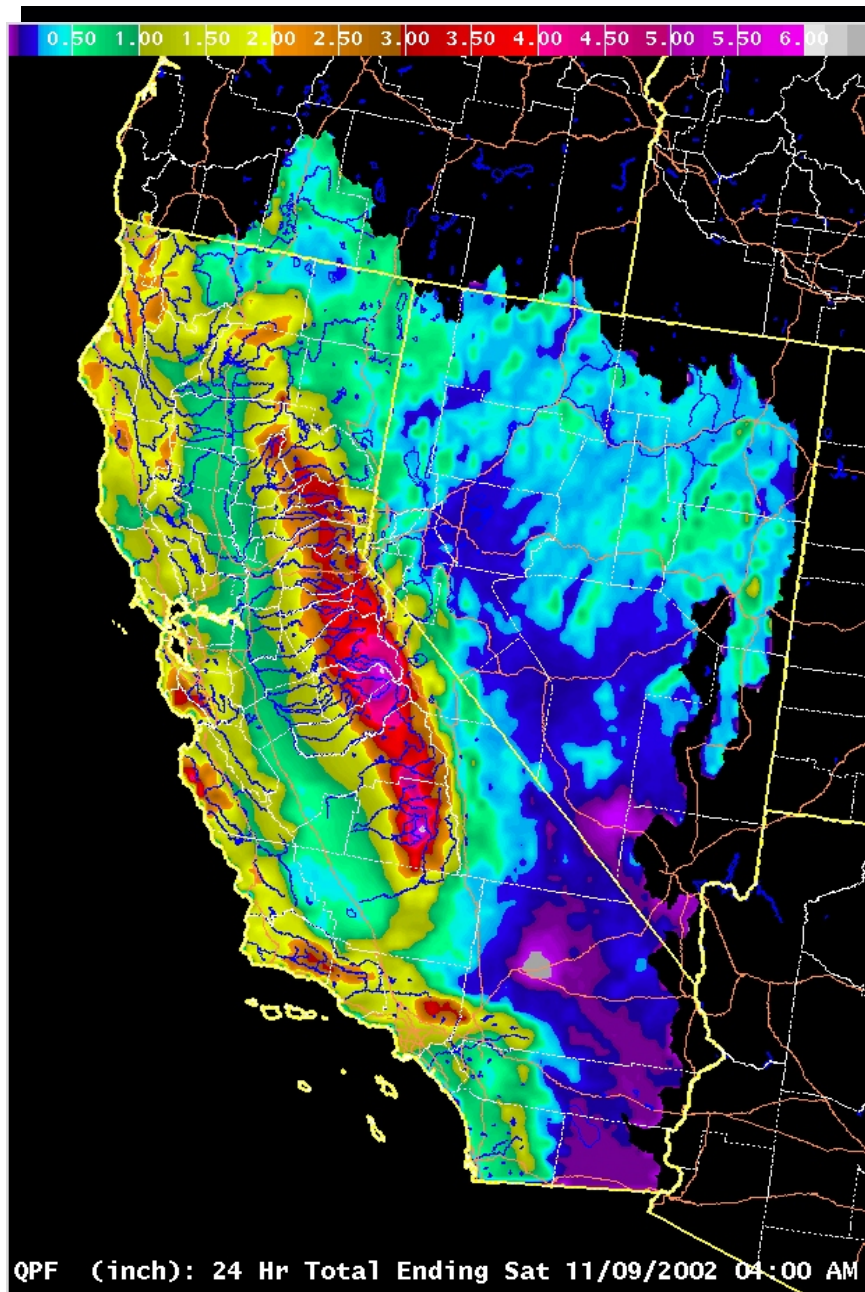
	Normal	Outlook
Valleys - Inland Empire (Riverside, Perris, Temecula, Cabazon)	9.00 - 13.00 in.	7.20 - 13.00 in.
Mountains (Idyllwild, Pine Cove, etc.)	25.00 - 40.00 in.	20.00 - 40.00 in.
Coachella Valley (Palm Springs, Indio, Thermal)	3.00 - 5.60 in.	2.50 - 5.60 in.

Rainfall Season 2003-2004

Through June 30
Actual Normal



■ Laguna Beach	8.14in	13.56	60%
■ Tustin	8.41	13.87	61%
■ Idyllwild	16.60	27.80	60%
■ Palm Springs	2.92	5.23	56%
■ Riverside	6.07	9.85	62%
■ Big Bear Lake	15.90	21.15	75%
■ Ontario	7.25	14.77	49%
■ San Diego	5.18	10.77	48%
■ Palomar Mtn	20.08	29.96	67%
■ Oceanside Marina	6.00	11.13	54%
■ Borrego Desert Park	4.13	6.91	60%



QPF Information

- www.wrh.noaa.gov/cnrfc/index.html
- www.wrh.noaa.gov/afos/LAX/QPS/LAXQPSSAN



THE END

